

PATENT ABSTRACTS OF JAPAN

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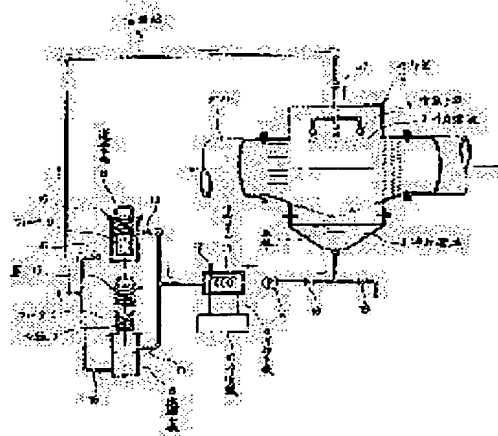
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(54) METHOD AND APPARATUS FOR COOLING BY LIQUID SPRAY TYPE

(57)Abstract:

PURPOSE: To carry out the efficient dehumidification by spraying cooling solution of low temp. into the gas contained with water to freeze and solidify the water into ice particles and at the same time to cool and dry the gas, and circulating the solution after removing the ice particles from the solution containing the ice particles by filtration.

CONSTITUTION: The cooling solution 3 of silicone oil, etc., is sprayed by a spray means 4 in a cooling chamber 2 to be brought into contact with the air contained with water sent from a duct 1, and the water is freezed and solidified and the air is cooled and dried. The cooling solution 3 containing ice particles 7 is sent a filter means 8 through a preliminary cooling means 6 cooling the solution 7 to promote the solidification and the ice particles are collected by filtration. Then, the cooling solution is sent to the cooling chamber 2 to be circulated.



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